



ENERGY

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Complete solutions for power generation



Project Data Sheet - Grenlec 7.45 MW Expansion CAT Diesel (LFO) Power Plant

Owner: Grenlec - Queen's Power Plant
Contractor: Energy International, Inc. - HMV Engineers

Engines: Caterpillar® model 16CM32 manufactured in Kiel, Germany
Location: St. George, Grenada
Application: Power plant to public utility
Technical Data: Electrical output: 1 x 7,450 kW

Energy International, Inc. / HMV
1983 NW 88th Court, Suite 304, Miami, FL 33172 - USA Tel.: (305) 593-5085 Fax: (305) 715-7308
www.enint.com / www.h-mv.com

MSEPDS0002-8-03en



- CAT CM Engines: Phase II: 1 x 16CM32, 16 cylinder in "Vee" arrangement
4 stroke engine rated at 7,450 kW output @ 750 rpm
- Fuel: Light Fuel Oil (Diesel)
- Generator: 3 phase synchronous generator
9,310 kVA, 3.3 kV, 50 Hertz
- Switchgear: High voltage 11kV, medium voltage 3.3 kV, low voltage 415 V,
control and monitoring system (SCADA)
- Turnkey Responsibility: Caterpillar® / HMV Engineers
- Erection, Civil Works: HMV/Energy International
- Initiation of Operation: Phase II 7.4 MW August 2003
- Client Benefits: More efficient power generation
By replacing their old high speed generator sets with highly efficient medium speed engines, Grenlec was able to produce power more reliably and efficiently.
- Cost effective power
The new medium speed engines produce power at a lower price per kilowatt hour, allowing more cost effective energy production.